

CLAIMS

1. A method of operating a radio transceiver operating in a radiocommunication system defining a plurality of time slots, the method comprising:

5 monitoring a temperature which has a direct effect on the comfort of a user of the transceiver; and

controlling a number of slots allocated for transmissions from said transceiver in response to the monitored temperature.

10 2. A method of operating a radio transceiver operating in a radiocommunication system defining a plurality of time slots, the method comprising:

monitoring a temperature which has a direct effect on the comfort of a user of the transceiver; and

15 controlling a number of slots allocated for receiving transmissions in said transmitter in response to the monitored temperature.

20 3. A method as claimed in claim 1 ~~or 2~~, wherein the transceiver forms part of a mobile communications device, and the temperature is a temperature of a casing of the device.

25 4. A method as claimed in claim 1 ~~or 2~~, wherein the transceiver forms part of a mobile communications device, and the temperature is a temperature of a display of the device.

30 5. A method as claimed in claim 1 ~~or 2~~, wherein the transceiver forms part of a mobile battery-powered communications device, and the temperature is a temperature of the battery of the device.

6. A method as claimed in claim 1 ~~or 2~~, wherein the number of allocated slots is controlled by sending a message to the radiocommunication system.

35 7. A radiocommunications device comprising a radio transceiver operable in a radiocommunication system defining a plurality of time slots, the device

comprising:

a temperature sensor for monitoring a temperature which has a direct effect on the comfort of a user of the device; and

5 a controller for controlling a number of slots allocated for transmissions from said transceiver in response to the monitored temperature.

10 8. A radiocommunications device comprising a radio transceiver operable in a radiocommunication system defining a plurality of time slots, the device comprising:

a temperature sensor for monitoring a temperature which has a direct effect on the comfort of a user of the device; and

15 a controller for controlling a number of slots allocated for receiving transmissions in said transceiver in response to the monitored temperature.

20 9. A method of operating a radio transceiver operating in a radiocommunication system defining a plurality of time slots, the method comprising:

monitoring a temperature within the transceiver; controlling the internal operation of the transceiver in response to the measured temperature; and

25 also controlling a number of slots allocated for transmissions from said transceiver in response to the same monitored temperature.

30 10. A method of operating a radio transceiver operating in a radiocommunication system defining a plurality of time slots, the method comprising:

monitoring a temperature within the transceiver; controlling the internal operation of the transceiver in response to the measured temperature; and

35 also controlling a number of slots allocated for

receiving transmissions in said transceiver in response to the same monitored temperature.

B 11. A method as claimed in claim 9 ~~or 10~~,  
wherein the transceiver forms part of a mobile  
5 communications device, and the temperature is a  
temperature of a crystal oscillator within the device,  
and is used to compensate for variations in the  
performance thereof.

B 12. A method as claimed in claim 9 ~~or 10~~,  
10 wherein the transceiver forms part of a mobile  
communications device, and the temperature is a  
temperature of a display of the device, and is used to  
control said display.

13. A radiocommunications device comprising a  
15 radio transceiver operable in a radiocommunication  
system defining a plurality of time slots, the device  
comprising:

a single temperature sensor for monitoring a  
temperature within the device; and

20 at least one controller for controlling the  
internal operation of the device and a number of slots  
allocated for transmissions from said transceiver in  
response to the same monitored temperature.

14. A radiocommunications device comprising a  
25 radio transceiver operable in a radiocommunication  
system defining a plurality of time slots, the device  
comprising:

a single temperature sensor for monitoring a  
temperature within the device; and

30 at least one controller for controlling the  
internal operation of the device and a number of slots  
allocated for receiving transmissions in said  
transceiver in response to the same monitored  
temperature.

35 15. A method of operating a radio transceiver

operating in a radiocommunication system defining a plurality of time slots, the method comprising:

monitoring a battery capacity of the transceiver;  
and

controlling a number of slots allocated for transmissions from said transceiver in response to the monitored battery capacity.

16. A method of operating a radio transceiver operating in a radiocommunication system defining a plurality of time slots, the method comprising:

monitoring a battery capacity of the transceiver;  
and

controlling a number of slots allocated for receiving transmissions in said transceiver in response to the monitored battery capacity.

17. A method as claimed in claim 15 ~~or 16~~, wherein the battery capacity is measured directly.

18. A method as claimed in claim 15 ~~or 16~~, wherein the battery capacity is estimated indirectly.

19. A method as claimed in claim 18, wherein the battery capacity is estimated on the basis of a measure of past use.

20. A method as claimed in claim 18, wherein the battery capacity is estimated on the basis of a measured temperature thereof.

21. A method as claimed in claim 19, wherein the measure of past use is the number of time slots in which the transceiver has transmitted data.

22. A method as claimed in claim 19, wherein the measure of past use is the past current consumption of at least a part of the transceiver.

23. A radiocommunications device comprising a radio transceiver operable in a radiocommunication system defining a plurality of time slots, the device comprising:

means for determining a battery capacity of the device; and

at least one controller for controlling a number of slots allocated for transmissions from said transceiver in response to the determined battery capacity.

24. A radiocommunications device comprising a radio transceiver operable in a radiocommunication system defining a plurality of time slots, the device comprising:

means for determining a battery capacity of the device; and

at least one controller for controlling a number of slots allocated for receiving transmissions in said transceiver in response to the determined battery capacity.

25. A method of operating a radio transceiver operating in a radiocommunication system defining a plurality of time slots, the method comprising:

controlling a number of slots allocated for transmissions from said transceiver based on a mode of operation of said transceiver.

26. A method of operating a radio transceiver operating in a radiocommunication system defining a plurality of time slots, the method comprising:

controlling a number of slots allocated for receiving transmissions in said transceiver based on a mode of operation of said transceiver.

27. A method as claimed in claim 25 ~~or 26~~, wherein an upper limit is placed on the number of slots allocated for said transmissions when the transceiver is operating with a loudspeaker.

28. A method as claimed in claim 25 ~~or 26~~, wherein an upper limit is placed on the number of slots allocated for said transmissions when the transceiver

is operating in a radio frequency simplex system.

**B**  
29. A method as claimed in claim 25 ~~or 26~~,  
comprising detecting a mode of operation of said  
transceiver by means of a proximity switch located on  
5 said transceiver.

30. A method as claimed in claim 29, wherein  
said proximity switch detects whether said transceiver  
is operating in handheld or handsfree mode.

**B**  
31. A method as claimed in claim 25 ~~or 26~~,  
10 wherein an upper limit is placed on the number of slots  
allocated for said transmissions when the transceiver  
is transmitting at high power.